Page 1 of 7

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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/770,689A

DATE: 01/04/2002 TIME: 14:44:57

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01042002\1770689A.raw

ENTERED

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4 <110> APPLICANT: YAN, Chunhua et al.
  <120> TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
        NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
        PROTEINS, AND USES THEREOF
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13 <141> CURRENT FILING DATE: 2001-01-29
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27 atgaagcagc tggctaacca gaccgtgggc agagctgaga aaacagaagt ccttagtgaa 180
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29 aagcgcttgg tggcatgttt ccagggccag catggcaccg atgccgagag gagacacaaa 300
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PATENT APPLICATION: US/09/770,689A

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01042002\I770689A.raw

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                       70
96 65
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                    85
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101 Val Phe Val Glu Lys Glu Ile Val Asp Pro Leu Tyr Gly Ile Ala Glu
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102
103 Val Glu Ile Pro Asn Ile Gln Lys Gln Arg Lys Gln Leu Ala Arg Leu
                                                 140
                             135
105 Val Leu Asp Trp Asp Ser Val Arg Ala Arg Trp Asn Gln Ala His Lys
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                        150
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                     165
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PATENT APPLICATION: US/09/770,689A

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\01042002\I770689A.raw

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110 111	Gln	Leu	Ala	180 Ala	Asp	Met	Tyr	Asn	Phe	Met	Ala	Lys	Glu 205	Gly	Glu	Tyr
112			195					200				_			** / -	3
113		210					215				Gln	220				
114	_	210	T	3 l a	17 n]	T 011	Glu	T.v.c	Thr	Len	Pro	Glu	Met	Arg	Ala	His
		Ald	ьец	нта	Val	230	Olu	LID			235			-		240
116	225			_		230	T	Dwo	7.1 a	Dho		Thr	Pro	Leu	Ala	Glu
117	Gln	Asp	Lys	Trp	Ala	GIU	гаг	PLO	Ата	250	Gly	1111	110		255	
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119	His	Leu	Lys	Arg	Ser	Gly	Arg	GLu	lie	Ala	Leu	Pro	TIE	270	мта	Cys
100				260					265					2/0		
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100			275					280					203			
123	Tle	Glv	Ala	Glv	Ala	Ser	Lys	Leu	Lys	Lys	Leu	Lys	Ala	Ala	Leu	Asp
101		200					295					300				
125	Cuc	Sor	Thr	Ser	His	Leu	asp	Glu	Phe	Tyr	Ser	Asp	Pro	His	Ala	Val
126		001	1111	DCI	11+0	310	-			_	315					320
120	303	C1	11 a	Tou	Lare	Ser	Tyr	Lei	Ara	Glu	Leu	Pro	Glu	Pro	Leu	Met
	Ala	GTĀ	Ата	пеп	325	DCI	- 1 -	Lou		330					335	
128		-1		T +	272	C111	Clu	Trn	Thr		Val	Ala	Ser	Val	Gln	Asp
	Thr	Pne	ASI		тут	GIU	GIU	ııþ	345	0111		•		350		-
130				340	_	a1	3	T OU	mrn J4J	λrα	Thr	Cvs	Gln		Leu	Pro
131	Gln	Asp			Leu	GIII	ASP	Leu	тър	лгу	Thr	0,0	365	1-		
132			355	_		_	n 1	360	m	T 011	т1о	Twe		T.OH	Δla	Lvs
133	Pro	Gln	Asn	Phe	Val	Asn	Pne	Arg	TAT	ьeu	Ile	380	FIIC	пси	1114	272
134		370					375	_	.	14 a da	mb »		Cor	λan	Tla	Δla
135	Leu	Ala	Gln	Thr	Ser	Asp	Val	Asn	Lys	мет	Thr	PIO	ser	ASII	110	400
136	385					390					395	3	a 1	C1	mh.r	
137	Ile	Val	Leu	Gly	Pro	Asn	Leu	Leu	Trp	Ala	Arg	ASII	GIU	GIY	1111	пеп
120					405					410					413	
139	Ala	Glu	Met	Ala	Ala	Ala	Thr	Ser	Val	His	Val	Val	Ala	Val	rre	GIU
1 4 0				420					425					430		
141	Pro	Ile	Ile	Gln	His	Ala	Asp	Trp	Phe	Phe	Pro	Glu	Glu	Val	Glu	Pne
1/12			435	1				440					445			
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111		450					455					460				
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116	165					470					4/3					400
140	700	Dro	λla	Ser	· Met	Ala	Val	Met	Glu	Gly	/ Asp	Leu	Val	Lys	Lys	Glu
		PIC	, AIG	. 501	485					490)				495	
148	Cor	Dro	Dro	. T 17C	Dro	. T.77	Asn	Pro	Val	Sei	Ala	Ala	Val	Pro	Ala	Pro
		PIC	PIC	, дуз 500		, Lys	, mo	110	505	5				510)	
150	a 1			300	Cor	. clr	т1_	Δla	Ser	· · Glv	. Glr	Asn	Gln	Pro	Gln	Ala
		Arg			ı ser	. GII.	1110	520	1	. 0-1			525	,		
152	_		515) 		. 01-		720	Mot	- 615	, Glr	Pro			ı Ala	Ala
				y ser	HIS	e GTI	ь деи 535	. ser	ME	. GI	7 311	540)			Ala
154		530)	_		. m.L		, , , , , ~ ^	. 7 ~ ~	τ 7\1:	a Wal			Pro	Ala	Pro
			Sei	rrc	HIS	THI	. Let	HIG	, AT	9 1710	555	,. :				Pro 560
156	545	Ō		_	_	550) - 3 -	D	.	_ D-∞-			2 Dro	, G1t	r Gla	
157	Ala	a Pro	Pro) Lys	s Pro	O GTZ	/ ASI	PIC) LIC	ר דר כ	י פדי	, 1112			J-1	g Gln

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PATENT APPLICATION: US/09/770,689A

Input Set a: \Seqlist.txt

Output Set: N:\CRF3\01042002\1770689A.raw

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1.00			505					600					003				
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1 (1		<10					615					020					
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100	C 2 E					630					033					0 1 0	
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1.00					615					650					000		
169	Pro	Pro	Asn		Met	Ala	Leu	Pro	ser	GIu	HlS	GIY	ьeu	670	GIII	110	
170				660			_,	_	665	D == 0	Dro	Cor	Thr		Pro	Len	
171	Ser	His		Pro	Pro	Gln	Thr	Pro	Thr	Pro	PIO	ser	685	rio	110	Lou	
172			675		_	a	т	680	7 J a	Dro	Gln	Thr		Ala	Glv	Glv	
173	Gly	Lys	GIn	Asn	Pro	ser	695	PIO	нта	FIO	OIII	700	Lou		1	1	
174 175		690	a 1	m h sa	3 1 5	Cln	Dro	иie	Δla	Glv	Thr		Pro	Arq	Pro	Arg	
		Pro	GIU	THE	Ala	710	FIO	1113	7114	O T J	715			_		720	
176 177	705	170 l	Dro	Tvc	Dro	Δrα	Δgn	Ara	Pro	Ser		Pro	Pro	Pro	Pro	Gln	
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			Leu		_												
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		0. 0	DOLL	MOD.	2		ί.										
			EQUE	++	+ +	ta c	acac	tctt	a ct	ctaq	ctqt	aag	gcag	agc	tctc	caggtt	60
4 0 0				~ ~ ~ ~ ~	a + a +	++ +	cato	α ttt	T CT	cada	latte	1 666	しししし	caa	Lage		
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209	ttt	gago	ctcc	ttga	atgat	cat t	aata	1000	19 to	juuu! taaa	glay!	a cat	ttta	raat	aaco	ttcatc caactgg	840
210	aaa	aacta	agtt	gtto	CCTCC	JLd 1		acaaq	, L C	Lyuy	المسادا				۰ - ر ر	, ,	

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0.40	· + - + -	. ++++~>+++	ctattttaa	cagttaaggg	gagtttggtl	Lygolyaayo	2100
0.50	+	. a++a+++++	ttgagtgtat	gaaaatactt	ttacttcctc	Logagiele	J240
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252	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	aaggggaga	- aaacctactt	ttctqttatt	tqcaqqaaaa	Llaaayaaal	3420
0.54	++	anaanntana	catataataa	- taacaactaa	tatttcaaqq	aacaytttac	3400
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250) tracactttt	tttttttt	gagacagggt	ctccctttgt	cacccaagct	ggggtgcagt	3780
400	, coacactet		J. J J. J	,			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/770,689A

DATE: 01/04/2002 TIME: 14:44:58

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01042002\1770689A.raw